Anaphylaxis and Epinephrine Utilization in North Carolina Schools

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Common Signs of Anaphylaxis

• Hives/itchy skin
• Swelling of the throat, lips, tongue, or around the eyes
• Difficulty breathing or swallowing
Key Facts

- Food allergies affect an estimated 4-6% of U.S. children.\textsuperscript{1,2}
- Among these, 16-18% experience a reaction at school.\textsuperscript{3,4}
- Approximately 25% of individuals treated with epinephrine at school have no prior diagnosis.\textsuperscript{5}
- Delayed administration of epinephrine is associated with increased mortality.\textsuperscript{6}
- On average there are 210 cases of severe anaphylaxis per year in North Carolina Schools.\textsuperscript{7}
Prevalence of Severe Allergies in North Carolina Schools

Source: Annual Report of School Health Services in NC Public Schools, 2004-2012
http://www.ncdhh.gov/dph/wch/stats
Epinephrine Administration in North Carolina Schools

Source: Annual Report of School Health Services in NC Public Schools, 2004-2012
http://www.ncdhhs.gov/dph/wch/stats
Location of Anaphylaxis Occurring in North Carolina Schools*

Total=1681

*events reported from 2004-2012

Source: Annual Report of School Health Services in NC Public Schools, 2004-2012
http://www.ncdhhs.gov/dph/wch/stats
Amarria Johnson
School Access to Emergency Epinephrine Act

• November 2013
• Gives funding preference to states for federal asthma treatment grants if they:
  – allow self-administration of asthma and anaphylaxis medication.
  – make a certification concerning Good Samaritan protections.
School Access to Emergency Epinephrine Act

• Requires elementary and secondary schools in these states to:

  1. maintain an emergency supply of epinephrine (EpiPens).
  2. permit trained personnel of the school to administer epinephrine.
  3. develop a plan for ensuring trained personnel are available to administer epinephrine during all hours of the school day.
Which States Stock Epinephrine in Schools?

Source: http://cqrcengage.com/aafa/epinephrine
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References


